

CLAIMS

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is as follows:

- 1 1. A system for point to point data streaming over a network, comprising:
 - 2 a Sender node for generating streaming data from a target site, said Sender being a client having an address on a network;
 - 3 a Viewer node for monitoring said target site using said data, said Viewer being a client on said network; and
 - 4 a Mediator node for remotely controlling direct transmission of said data from said Sender to said Viewer,
 - 5 wherein said direct transmission is initiated and paused asynchronously by said Viewer.
- 1 2. A system as in claim 1, wherein said network is a TCP/IP network.
- 1 3. A system as in claim 1, wherein said streaming data is multi-media.
- 1 4. A system as in claim 1, wherein said Sender's address is dynamic.
- 1 5. A system as in claim 1, wherein said Mediator node contains a registry which monitors and records session information, Sender location and availability, and Viewer access privileges, and wherein said Mediator node provides a static Internet location for accessing the system.

- 1 6. A system as in claim 1, wherein said Sender further comprises means for
2 accepting requests from authorized Viewers and means for streaming said data
3 to said authorized Viewers.
- 1 7. A system as in claim 6, further comprising a plurality of Senders, a plurality
2 of Viewers, and a plurality of Mediator nodes.
- 1 8. A system as in claim 7, wherein a first Sender further comprises a
2 MediaRelay for retransmitting to a Viewer or another Sender a data stream
3 generated by said first Sender or received from a second Sender.
- 1 9. A system as in claim 7, wherein each said Mediator node provides security.
- 1 10. A system as in claim 9, wherein said security is implemented by encrypted
2 communication tokens, each said token containing an address of a designated
3 Sender and being readable by a designated Viewer, said designations being
4 mediated at said Mediator node.
- 1 11. A system as in claim 1, wherein said streaming data is generated and
2 transmitted in real-time.
- 1 12. A system as in claim 1, wherein said Sender is implemented by
2 MediaSender software and said software is updated automatically from said
3 Mediator node.
- 1 13. A system as in claim 12, wherein said software is constructed using
2 platform independent Java technology.

1 14. A method for point to point data streaming over a network between a
2 Sender and a Viewer, comprising the steps of:

3 registering Sender information with a Mediator node, said Sender
4 information including at least a location of said Sender and a list of Viewers
5 having access rights;

6 authenticating said Sender by said Mediator;

7 requesting access to said Sender by a Viewer;

8 logging said Viewer's request with said Mediator node, said logging
9 validating said Viewer against said list of Viewers;

10 transmitting said location information to said validated Viewer and
11 notifying said Sender of said validated Viewer; and

12 downloading by said Viewer of a videostreamer from said Sender.

1 15. The method of claim 14, wherein said network is a TCP/IP network.

1 16. The method of claim 14, wherein said streaming data is multi-media.

1 17. The method of claim 14, wherein said Sender's address is dynamic.

1 18. The method of claim 14, wherein said Mediator node contains a registry
2 which monitors and records session information, Sender location and
3 availability, and Viewer access privileges.

1 19. The method of claim 14, further comprising the steps of:

2 registering a second Sender's information by said Mediator node, said
3 information including at least a location of said second Sender, said second

- 4 Sender having a MediaRelay for retransmitting said videotreamer to said
5 Viewer;
6 after said logging of said Viewer's request, transmitting to said validated
7 viewer said second Sender's location information, said videotreamer then
8 being transmitted by said Sender to said second Sender and downloaded to said
9 Viewer by said MediaRelay.
- 1 20. A system for point to point data streaming over a network between a
2 Sender and a Viewer, comprising:
3 means for registering Sender information with a Mediator node, said
4 Sender information including at least a location of said Sender and a list of
5 Viewers having access rights;
6 means for authenticating said Sender by said Mediator;
7 means for requesting access to said Sender by a Viewer;
8 means for logging said Viewer's request with said Mediator node, said
9 logging validating said Viewer against said list of Viewers;
10 means for transmitting said location information to said validated
11 Viewer and notifying said Sender of said validated Viewer; and
12 means for downloading by said Viewer of a videotreamer from said
13 Sender.
- 1 21. A system for point to point data streaming over a network, comprising:
2 means for transmitting a data stream from a Sender to one or more
3 Viewers, optionally via one or more Relays;
4 means for registering information of said Sender with a Mediator node,
5 said information including said Sender's location on said network and said
6 Sender's availability for said transmission;

7 means for said Viewers to request access to said Sender from a Mediator
8 node;

9 means for said Mediator node to provide said location information to
10 said Viewers if said Sender is available;

11 wherein said transmission to said Viewer is initiated, stopped and
12 restarted asynchronously by said Viewer.

1 22. A system as in claim 21, wherein said providing means use encrypted
2 tokens for security.